

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P1007560

Luminaire Tested: S123IP-B585UB27-4F0-XX-W2A-4

Issue Date: 5/5/2025

Test Information

Test Method: LM-79-2019
Report Number: P1007560
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-17)
Test Lab: INNOVATION CENTER
Issue Date: 5/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123IP-B585UB27-4F0-XX-W2A-4
Description: Define 3 Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

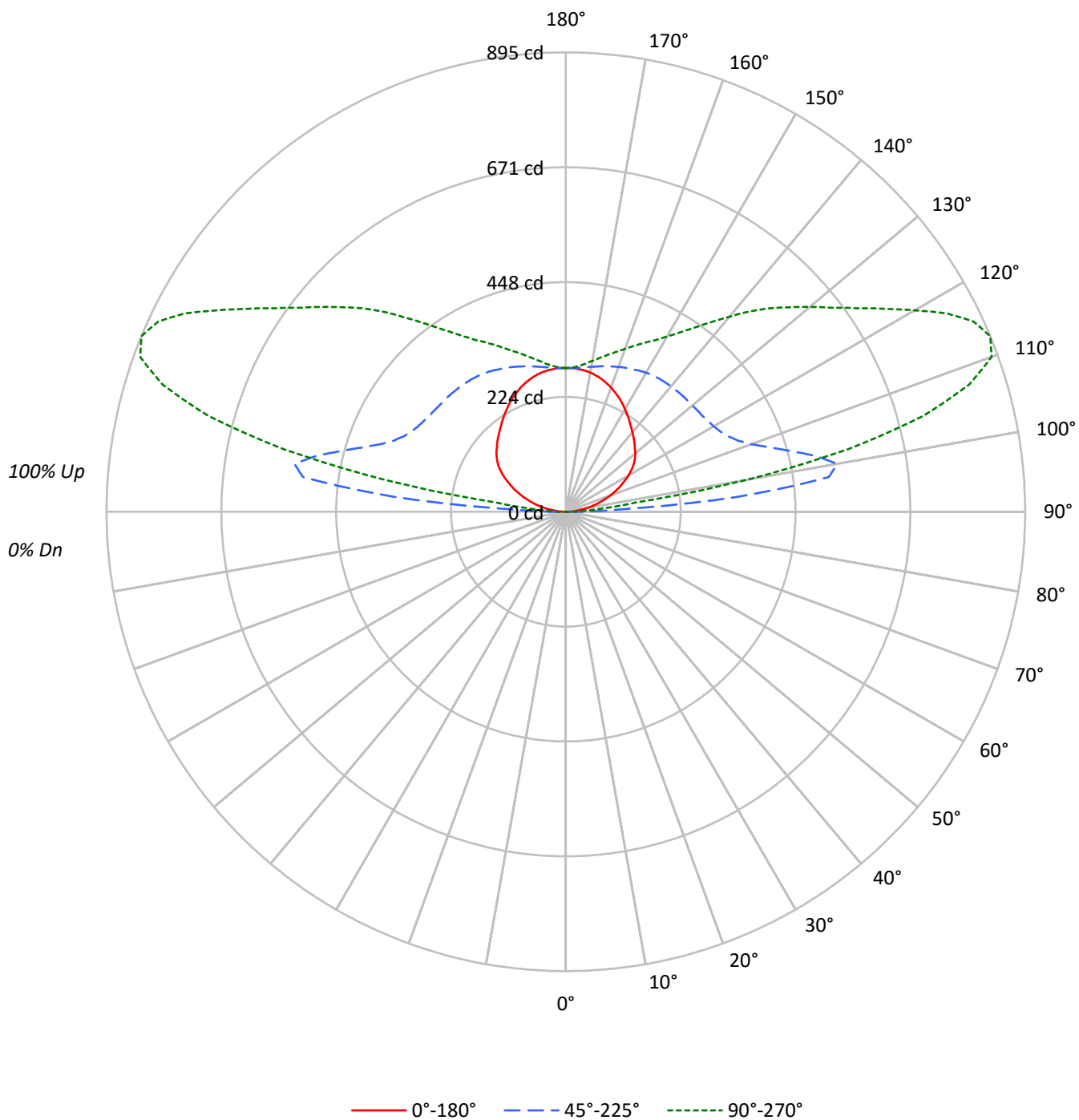
Lumens per Lamp: N/A
Luminaire Lumens: 2107.0 lumens
Efficiency: N/A
Efficacy: 136.8 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')
CIE Type: Indirect

Input Watts (W): 15.4
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20			
RC	80				70				50				30				10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	95	95	95	95	81	81	81	81	56	56	56	32	32	32	10	10	10	10	10	0
1	87	83	79	76	74	71	68	65	48	47	45	28	27	26	9	9	8	8	8	0
2	79	72	66	62	67	62	57	53	42	40	37	24	23	22	8	7	7	7	7	0
3	72	63	56	51	61	54	49	44	37	34	31	21	20	18	7	6	6	6	6	0
4	65	56	48	43	56	48	42	37	33	29	26	19	17	16	6	6	5	5	5	0
5	60	49	42	36	51	42	36	32	29	25	22	17	15	13	5	5	4	4	4	0
6	55	44	36	31	47	38	32	27	26	22	19	15	13	11	5	4	4	4	4	0
7	50	39	32	27	43	34	28	23	23	19	17	14	11	10	4	4	3	3	3	0
8	47	35	28	23	40	30	24	20	21	17	14	12	10	9	4	3	3	3	3	0
9	43	32	25	20	37	27	22	18	19	15	13	11	9	8	4	3	3	3	3	0
10	40	29	22	18	34	25	19	16	17	14	11	10	8	7	3	3	2	2	2	0

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	0	0	0
5°	0	0	0
10°	0	0	0
15°	0	0	0
20°	0	0	0
25°	0	0	0
30°	0	0	0
35°	0	0	0
40°	0	0	0
45°	0	0	0
50°	0	0	0
55°	0	0	0
60°	0	0	0
65°	0	0	0
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 0°
Luminance: 0 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.0	0.0
10°-20°	0.0	0.0
20°-30°	0.0	0.0
30°-40°	0.0	0.0
40°-50°	0.0	0.0
50°-60°	0.0	0.0
60°-70°	0.0	0.0
70°-80°	0.0	0.0
80°-90°	1.5	0.1
90°-100°	151.9	7.2
100°-110°	444.7	21.1
110°-120°	434.2	20.6
120°-130°	345.8	16.4
130°-140°	272.8	12.9
140°-150°	203.5	9.7
150°-160°	141.9	6.7
160°-170°	83.4	4.0
170°-180°	27.1	1.3
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	1.5	0.1
90°-120°	1030.8	48.9
90°-150°	1853.0	87.9
90°-180°	2105.0	99.9
0°-180°	2107.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	0	0	0	0	0	
5°	0	0	0	0	0	0
15°	0	0	0	0	0	0
25°	0	0	0	0	0	0
35°	0	0	0	0	0	0
45°	0	0	0	0	0	0
55°	0	0	0	0	0	0
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	1	7	14	16	16	1
95°	19	63	336	98	66	20
105°	66	97	456	797	721	70
115°	116	145	348	764	876	115
125°	162	191	325	589	691	143
135°	189	226	321	485	560	146
145°	216	247	317	398	438	135
155°	245	265	306	348	363	113
165°	268	276	294	311	317	76
175°	279	280	282	286	285	27
180°	280	280	280	280	280	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	1.1	2.3	3.4	5.1	6.2	7.4	9.1	10.8	12.5	14.2	13.6
92.5°	8.5	12.5	18.1	23.2	28.9	39.1	57.2	87.3	116.7	105.4	78.8
95°	19.3	21.0	27.2	36.8	51.6	73.7	121.8	206.2	299.2	336.0	272.5
97.5°	30.6	31.2	36.3	44.8	59.5	83.9	131.5	229.5	385.9	516.7	534.3
100°	41.9	42.5	46.5	54.4	68.0	90.1	129.8	213.6	362.6	536.6	648.2
102.5°	53.8	55.0	58.4	65.7	77.6	97.5	132.0	200.0	328.6	499.7	653.9
105°	65.7	67.4	70.8	77.6	88.4	106.0	136.6	194.9	302.0	455.5	618.2
107.5°	78.2	79.9	83.3	90.1	100.3	116.7	143.9	193.8	282.7	416.5	567.2
110°	91.8	93.5	96.3	102.6	112.2	128.1	153.5	196.6	272.5	384.2	519.6

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	104.3	106.0	108.8	115.0	124.7	140.0	163.2	202.3	266.9	362.6	478.2
115°	116.2	118.4	121.8	127.5	137.1	152.4	173.9	208.5	266.3	348.5	446.5
117.5°	128.1	130.9	133.7	138.8	149.6	163.7	185.3	216.4	266.9	338.8	425.5
120°	140.5	142.2	145.1	150.7	161.5	175.6	196.0	225.5	269.1	332.6	409.7
122.5°	151.3	153.0	155.8	162.0	172.2	187.5	207.4	234.0	273.1	328.6	396.6
125°	161.5	162.6	166.0	172.2	183.0	198.3	218.1	243.1	277.1	325.2	385.9
127.5°	169.4	171.1	175.1	181.3	193.2	208.5	227.8	250.4	281.6	323.5	375.7
130°	176.8	178.5	183.6	190.4	202.3	217.6	236.3	257.8	286.1	321.8	367.7
132.5°	182.4	184.7	190.4	198.9	210.8	225.5	243.6	264.6	289.5	321.3	360.4
135°	189.2	191.5	197.7	206.2	218.1	233.4	251.0	270.3	292.9	320.7	354.1
137.5°	195.5	197.7	204.0	213.0	224.9	239.1	256.1	274.8	295.2	319.6	348.5
140°	201.7	204.5	210.2	219.3	230.6	244.8	261.2	278.2	297.5	319.0	343.4
142.5°	208.5	210.8	217.0	224.9	236.3	249.3	265.2	281.6	299.2	317.9	338.8
145°	215.9	217.6	222.7	231.2	240.8	253.8	268.6	283.9	299.7	316.7	334.9
147.5°	223.2	224.4	229.5	236.8	246.5	257.8	271.4	285.6	299.7	315.0	330.9
150°	230.6	231.2	235.7	243.1	251.0	261.2	274.2	286.1	299.7	312.8	326.9
152.5°	238.0	238.0	242.5	248.7	255.5	265.2	275.9	287.3	298.0	309.9	322.4
155°	245.3	245.3	248.7	254.4	260.6	268.6	278.2	287.3	296.9	306.5	317.9
157.5°	251.0	251.6	254.4	259.5	265.2	271.4	279.3	287.8	295.2	303.7	312.8
160°	257.8	257.8	260.1	264.6	268.6	274.2	281.0	287.8	294.1	300.3	307.7
162.5°	262.9	262.9	264.6	268.0	271.4	275.9	281.6	287.3	291.8	296.9	302.6
165°	268.0	267.4	268.6	271.4	273.7	277.6	282.2	286.1	289.5	293.5	298.0
167.5°	272.0	271.4	272.0	274.2	275.9	278.8	282.2	285.6	287.3	290.1	293.5
170°	275.4	274.2	274.8	276.5	277.6	278.8	281.6	283.9	285.0	286.7	289.5
172.5°	277.6	277.1	277.1	278.2	278.8	279.3	281.6	283.3	283.3	283.9	285.6
175°	279.3	278.8	278.2	279.3	279.3	279.9	281.0	282.2	281.6	281.6	282.7
177.5°	280.5	279.9	279.3	279.9	279.9	279.9	280.5	281.6	280.5	279.9	280.5
180°	279.9	279.9	279.9	279.9	279.9	279.9	279.9	279.9	279.9	279.9	279.9

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	14.2	14.7	15.3	16.4	15.9	16.4	17.0	16.4
92.5°	56.1	43.6	38.0	34.0	32.9	30.6	31.2	30.0
95°	204.0	138.3	108.2	87.8	77.1	72.0	68.0	65.7
97.5°	468.6	353.6	278.8	214.2	176.2	154.7	141.1	134.9
100°	668.0	622.1	555.8	475.4	418.2	376.8	354.7	355.3
102.5°	734.3	743.9	712.2	668.6	627.2	596.6	579.1	562.6
105°	736.6	793.2	804.0	789.3	763.2	741.7	723.6	720.7
107.5°	702.6	791.5	835.7	851.0	847.6	837.4	830.1	823.8
110°	649.3	753.6	825.0	864.6	880.5	885.0	883.9	882.8

TEST NUMBER: P1007560

CATALOG NUMBER: S123IP-B585UB27-4F0-XX-W2A-4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	596.6	703.7	785.9	839.7	872.0	888.4	894.1	894.7
115°	551.3	649.9	733.2	794.9	837.4	862.4	873.7	876.5
117.5°	516.2	603.4	679.9	743.9	788.1	815.9	832.9	836.9
120°	489.5	566.0	634.0	691.3	736.0	767.7	781.3	784.7
122.5°	468.6	536.0	597.8	649.9	688.4	716.2	731.5	736.0
125°	450.4	512.2	566.6	611.9	648.2	673.1	687.3	691.3
127.5°	434.0	490.1	540.0	581.9	614.8	636.3	649.3	652.7
130°	418.7	469.7	515.6	554.1	584.2	604.6	616.5	621.0
132.5°	404.6	450.4	492.4	528.6	556.4	576.8	587.0	589.8
135°	392.1	432.3	469.1	501.4	529.2	546.2	556.4	560.4
137.5°	380.2	414.2	447.0	475.9	499.7	517.3	525.8	529.2
140°	370.0	398.9	426.1	450.4	472.0	487.8	496.9	496.3
142.5°	360.4	384.2	406.8	427.2	444.8	458.4	466.3	465.7
145°	353.0	371.7	389.8	406.3	420.4	432.3	436.9	438.0
147.5°	346.8	362.1	377.4	389.3	400.6	409.1	413.6	414.2
150°	340.0	353.0	364.9	375.7	384.2	390.4	393.8	393.8
152.5°	333.7	344.5	354.7	363.2	369.4	375.1	376.8	376.8
155°	327.5	336.6	345.1	351.9	357.0	361.5	362.6	363.2
157.5°	320.7	328.6	335.4	341.1	345.6	349.0	350.2	350.2
160°	315.0	321.3	326.9	330.9	334.9	338.3	338.3	337.7
162.5°	308.2	313.3	318.4	321.8	324.1	326.9	326.9	326.4
165°	302.6	306.0	309.9	312.8	315.0	317.3	316.7	316.7
167.5°	297.5	300.3	302.6	304.8	306.0	307.7	307.1	307.1
170°	292.4	294.1	296.3	297.5	298.0	299.2	298.6	298.6
172.5°	287.8	289.0	290.7	291.2	291.2	292.4	291.2	290.7
175°	283.9	284.4	285.6	285.6	285.6	286.1	285.6	285.0
177.5°	281.0	281.6	282.2	282.2	281.6	282.2	281.0	281.0
180°	279.9	279.9	279.9	279.9	279.9	279.9	279.9	279.9

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